### PATENT COOPERATION TREATY

### PCT

REC'D 2 4 FEB 2005

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference											
TSL1821PCT	FOR FURTHER	ACTION	See Form PCT/IPEA/416								
International application No. PCT/JP2004/004562	International filing date 30.03.2004	a (day/month/year) .	Priority date (day/month/year) 31.03.2003								
International Patent Classification (IPC) or CO7F7/18	national classification and	IPC									
Applicant DOW CORNING TORAY SILICON	IE CO. LTD.										
<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>											
2. This REPORT consists of a total											
a. Sent to the applicant and t	to the International Bur	eau) a total of sheets,	as follows:								
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).											
☐ sheets which superse beyond the disclosure Supplemental Box.	beyond the disclosure in the international application as filed, as indicated in item 4 of Pox No. 1 and the										
b.   (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).											
4. This report contains indications re	elating to the following i	tems:									
☑ Box No. I Basis of the opi	☑ Box No. I Basis of the opinion										
☐ Box No. II Priority											
☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicable											
☐ Box No. IV Lack of unity of	and the second approaching										
applicability, cita	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement										
	Certain documents cited										
☐ Box No. VII Certain defects											
☐ Box No. VIII Certain observa	Box No. VIII Certain observations on the international application										
Date of submission of the demand		Date of completion of this report									
29.10.2004		23.02.2005									
Name and mailing address of the internation preliminary examining authority:	al	Authorized Officer									
European Patent Office 0-80298 Munich Tel. +49 89 2399 - 0 Tx: 52368 Fax: +49 89 2399 - 4465	56 epmu d	Elliott, A  Telephone No. +49 89 2399-8218									

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/JP2004/004562

_									
_	В	ox No. I	Basis of the r	eport					
1.	. Wi	With regard to the <b>language</b> , this report is based on the international application in the language in which filed, unless otherwise indicated under this item.						n which it was	
		************	s inc language	n translations fro of a translation f	urnished for	tne purposes	ito the following	language,	
		<ul> <li>□ international search (under Rules 12.3 and 23.1(b))</li> <li>□ publication of the international application (under Rule 12.4)</li> <li>□ international preliminary examination (under Rules 55.2 and/or 55.3)</li> </ul>							
2.		With regard to the <b>elements*</b> of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):							sheets which ed to in this
	Description, Pages								
	1-14		as originali	as originally filed					
	Cla	ims, Num	bers						
	1-10		as originally	y filed					
	Drawings, Sheets								
	1/1			as originally	/ filed				
		a seque	nce listing and/	or any related ta	ble(s) - see S	Supplemental	Box Relating to	Sequence Li	sting
3.				resulted in the c	ancellation o	of:			
		☐ the d	escription, page laims, Nos.	es					
		☐ the d	rawings, sheets	/figs					
		☐ any ta	equence listing able(s) related t	(specify): o sequence listi	ng (specify):				
4.	had	plementa	Box (Rule 70.		some of) the a onsidered to	amendments go beyond th	annexed to this e disclosure as	report and lis filed, as indica	sted below ated in the
		☐ the de	escription, page aims, Nos.	s					
		☐ the di	awings, sheets	figs					j <sup>t</sup> .
		☐ any ta	equence listing able(s) related to	<i>(specify)</i> : o sequence listir	ng (specify):				
	*	If item	4 applies,	some or all	of these	sheets ma	y be marked	"supersed	eđ."

#### INTERNATIONAL PRELIMINARY REPORT **ON PATENTABILITY**

International application No. PCT/JP2004/004562

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1,3,4,7-10

No:

Claims

2,5,6

Inventive step (IS)

Yes: Claims

1,3,4,7,9

No: Claims 2,5,6,8,10

Industrial applicability (IA)

Yes: Claims

1-10

No: Claims

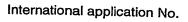
2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet



#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

PCT/JP2004/004562

The following documents are mentioned in this opinion:

D1: US-A-4 026 880 (MITCHELL TYRONE D) 31 May 1977 (1977-05-31)

D2: US-A-4 209 455 (PEPE ENRICO J) 24 June 1980 (1980-06-24)

D3: US-A-3 033 815 (PIKE RONALD M ET AL) 8 May 1962 (1962-05-08)

D4: GB 882 051 A (UNION CARBIDE CORP) 8 November 1961 (1961-11-08)

D5: GB-A-1 394 206 (GEN ELECTRIC) 14 May 1975 (1975-05-14)

#### Re Item V.

The subject-matter of claims 2, 5, and 6 is not to be seen as novel with respect to document D1 as D1 discloses the compound containing the piperidine ring in column 5, line 15. The manufacture of this compound is given in the same column. The subject-matter of claims 2, 5, 6, 8 and 10 is additionally not to be regarded as inventive with respect to D1 as the compounds of D1 can be used a glass sizing agents, i.e. as agents for treating the surface of glass. The disclosure of D1 goes beyond the one novelty-destroying compound mentioned above and includes a generic disclosure of further compounds falling under the scope of claim 2 whose preparation falls under the scope of claims 5 and 6.

With respect to D2 (cited in the description) which discloses compounds similar in structure to those presently-claimed but differing by their containing a secondary nitrogen instead of a tertiary nitrogen. The examples of the present application clearly show that compounds with a tertiary nitrogen are superior to those withe the secondary nitrogen where adhesive strength is concerned. Claims 1, 3, 4, 7 and 9 are to be regarded as novel and inventive over the prior art.

(D3-D5 disclose compounds similar to those presently on file.)

#### Re Item VII.

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art a disclosed in document D1 and possibly also D3-D5 has not been mentioned in the description, nor have these documents been identified therein.